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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/559,638	12/02/2005	Xiaowu Gong	1890-0330	7260
Marinas Maan	7590 01/31/2008		EXAMINER	
Maginot Moore & Beck Bank One Tower		KINKEAD, ARNOLD M		
111 Monument Suite 3000	: Circle		ART UNIT	PAPER NUMBER
Indianapolis, Il	N 46204		2817	
			MAIL DATE	DELIVERY MODE
	,	•	01/31/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)	
Corrected	10/559,638 GONG, XIAOWU		
Office Action Summary	Examiner	Art Unit	
	Arnold Kinkead	2817	
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet v	rith the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DOWN THE MAILING DOWN THE MAILING DOWN THE MAILING DOWN THE MAILING THE MAILING THE METERS IX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period to Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUN 36(a). In no event, however, may a will apply and will expire SIX (6) MO c. cause the application to become A	CATION. reply be timely filed NTHS from the mailing date of this communication BANDONED (35 U.S.C. § 133).	
Status		•	
1) Responsive to communication(s) filed on			
	 action is non-final.	•	
3) Since this application is in condition for allowar		ters prosecution as to the merits is	2
closed in accordance with the practice under E	•		•
Disposition of Claims			•
4)⊠ Claim(s) <u>1-20</u> is/are pending in the application.			`
4a) Of the above claim(s) is/are withdraw	wn from consideration.		
5)⊠ Claim(s) <u>10-20</u> is/are allowed.			
6)⊠ Claim(s) <u>1-3 and 8</u> is/are rejected.			
7)⊠ Claim(s) <u>2-7 and 9</u> is/are objected to.			
8) Claim(s) are subject to restriction and/o	r election requirement.	·	
Application Papers			
9)⊠ The specification is objected to by the Examine	r.		
10) The drawing(s) filed on is/are: a) □ acce	epted or b) objected to	by the Examiner.	
Applicant may not request that any objection to the	· ·	•	
Replacement drawing sheet(s) including the correct			d).
11) The oath or declaration is objected to by the Ex			,
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1 Certified copies of the priority documents 2 Certified copies of the priority documents 3 Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in A ity documents have beer I (PCT Rule 17.2(a)).	application No received in this National Stage	·
The state of the s	on the servines depice flot		
	•		
Attachment(s)	·		
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	Paper No(Summary (PTO-413) s)/Mail Date nformal Patent Application	
Patent and Trademark Office	, <u> </u>	white	

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DETAILED ACTION

THE OFFICE ACTION MAILED 08-22-07 HAS BEEN CORRECTED. ALL CLAIMS FROM PRELIMINARY AMENDMENT HAVE BEEN ADDRESSED IN THIS NEW ACTION.

Specification

The abstract of the disclosure is objected to because it should be on a separate page. Correction is required. See MPEP § 608.01(b).

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1,2,3, and 8 are rejected under 35 U.S.C. 102(b) as being anticipated by Sauer(US 5,497,127 cited by applicant).

The reference by Sauer discloses a tunable oscillator, see figure 1, with a control supply(hysteresis circuit(199)) that allows for tuning of the oscillator; The oscillator circuit signal(C1) is shown to be compared with a reference signal(N1) which has an amplitude that varies(See col. 4, line 42-col. 5, line 42):

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- "(15) In the circuit 199, a current provided by transistor 187, responsive to the control potential CS1, generates the <a href="https://www.nysteresis.com/n
- (16) When the signal DN is in a logic-low state, the transistor 198 is not conductive and the resistance of the voltage divider network is determined by the fixed resistors 189 and 191, the resistance of the resistor 195 in parallel with the resistance of resistor 185 and the variable resistance of transistor 197. As described above, the resistance of transistor 197 varies in inverse proportion to the control signal CVCO.
- (17) When signal DN is in a logic-high state, transistor 198 is conductive and the resistance of the voltage divider network is determined as the combined resistance of resistors 189, 191 and the shunt combination of resistors 195 and 185. This significantly reduces the value of the signal N1.
- (18) The hysteresis signal N1 is at a relatively high level when <u>capacitor 152</u> is being charged from a relative negative potential to a relatively positive potential, and at a relatively

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low level when capacitor 152 is being discharged from a relatively positive potential to a relative negative potential. The output signal of the differential comparator 175 is applied to the differential to single-ended level shifter 183...

- (20) Also at time T1, the signal DN renders the transistor 198 conductive, reducing the resistance of the bottom component of the voltage divider which forms the hysteresis circuit 199. This causes **the signal N1** to decrease from approximately 2.7 volts to approximately 2.2 volts.
- At time T2, the negative ramp of the signal C1 also reaches 2.2 volts, causing the relative amplitudes the signals A and B to reverse. This reversal is sensed by the circuitry 183 which, in response, causes the signals DN and CLK to change state from positive to negative. Shortly after time T2, signal DN is at ground potential, rendering the transistors 148 and 150 nonconductive. This stops the current drain from capacitor 152, allowing the capacitor to again be charged by the current provided through transistor 136. This results in the positive going slope of the triangle wave C1 between times T2 and T3. The change in state of the signal DN also renders transistor 198 nonconductive, increasing the resistance in the voltage divider network of the hysteresis circuit 199. This increase in the resistance increases the signal N1 from 2.2 volts to 2.7 volts. At time T3, the signal C1 has charged to 2.7 volts and the process begins again as described above with reference to time T1. "

As described above there is an inverse relationship between the control output passing through the delay compensation(including inverter 192 and hysteresis circuit 199) and the amplitude of the reference signal, N1. The oscillator circuit has a capacitor(152) that is charged and discharged in response to the comparison(via 148,150).

Allowable Subject Matter

Whole

Claims 4-7,9 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 10-20 are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Arnold Kinkead whose telephone number is 571-272-1763. The examiner can normally be reached on Hoteling.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Pascal can be reached on 571-272-1769. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Arnold Kinkead 08-16-07